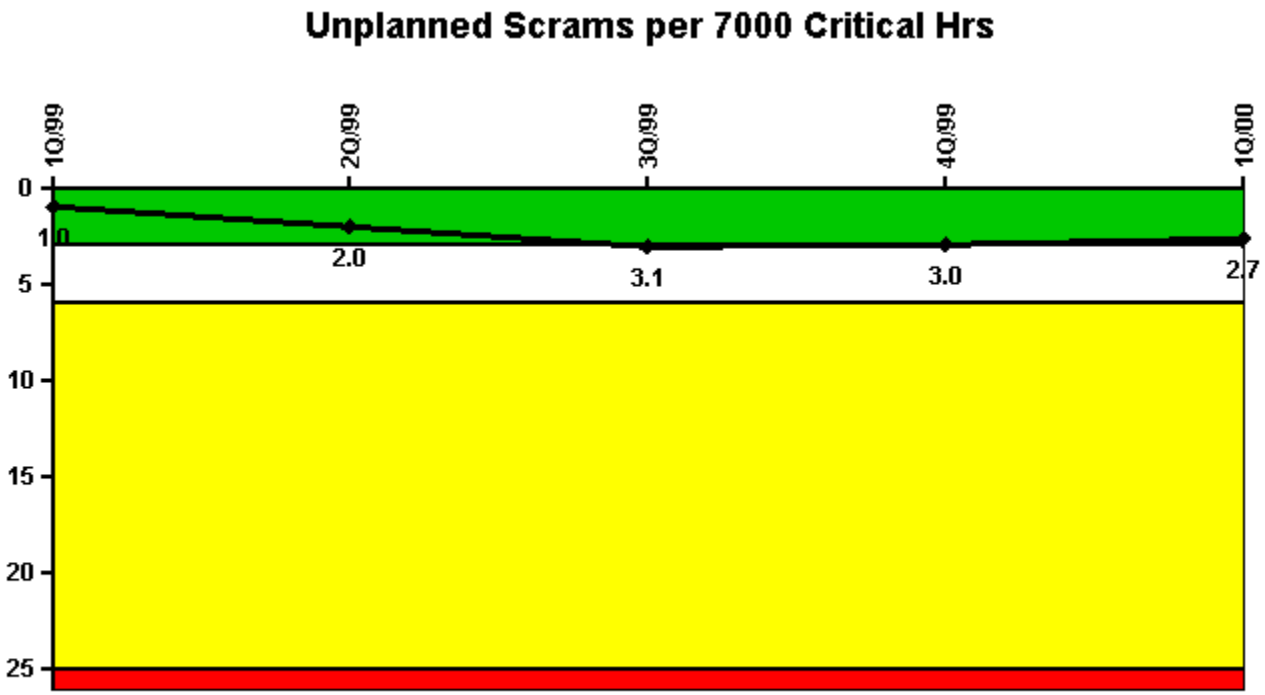
Waterford 3

1Q/2000 Performance Indicators

Licensee's General Comments: none



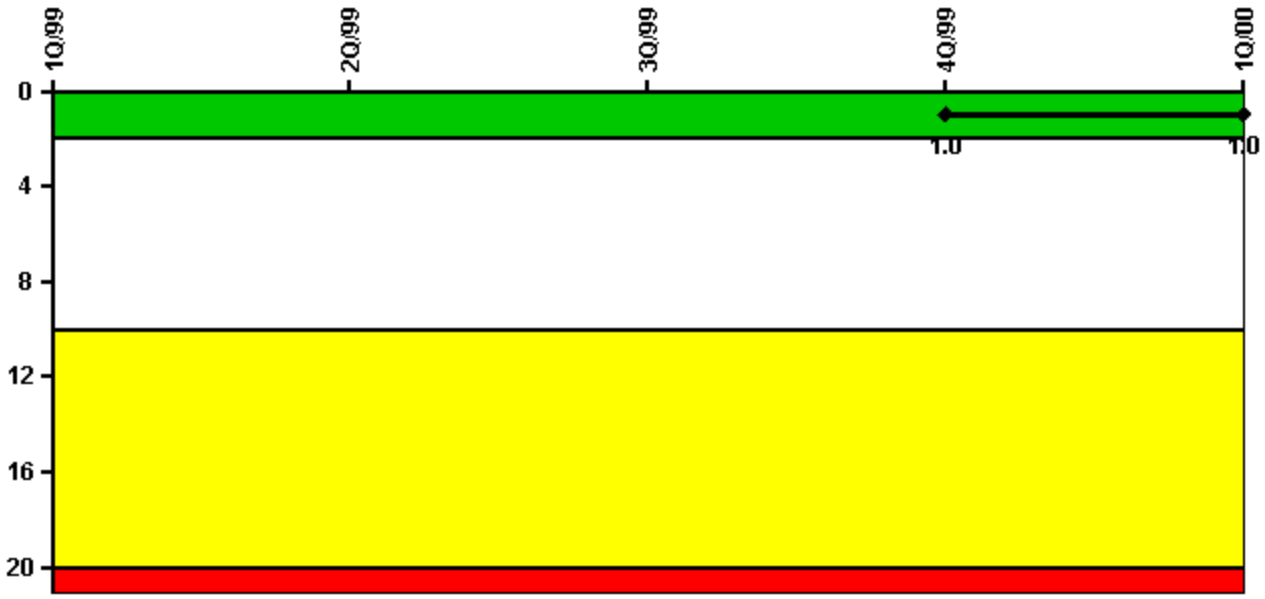
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	1.0	2.0	0	0
Critical hours	1199.8	2123.8	1565.0	2080.9	2149.4
Indicator value	**1.0**	**2.0**	**3.1**	**3.0**	**2.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



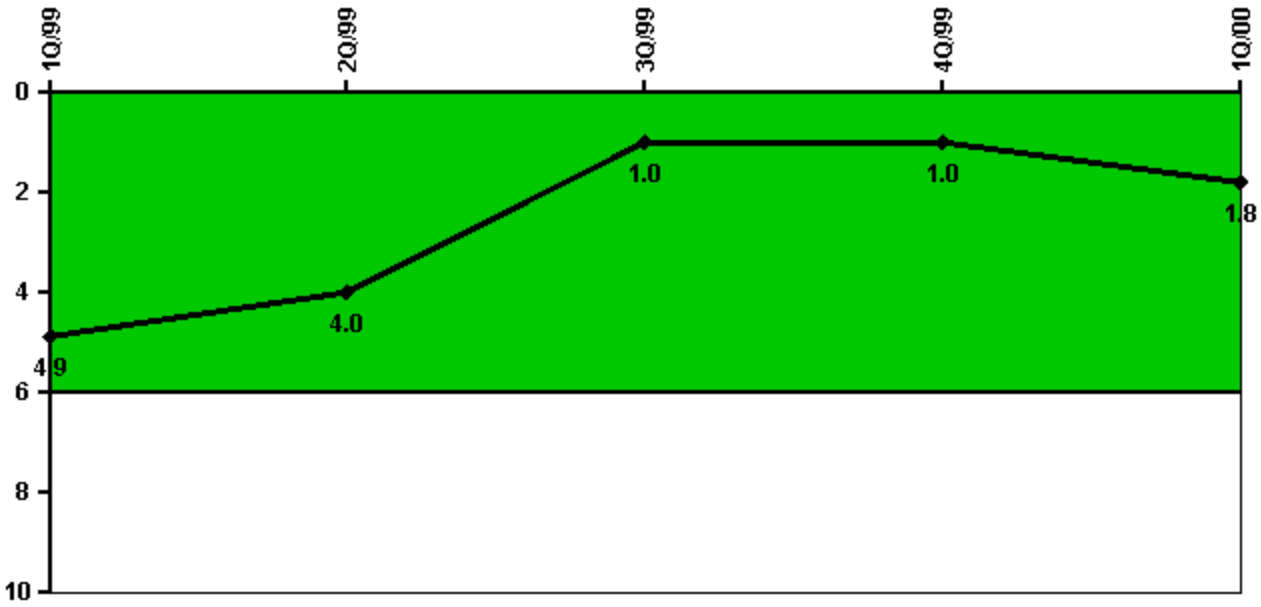
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	0	1.0	0	0	0
Indicator value				**1.0**	**1.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



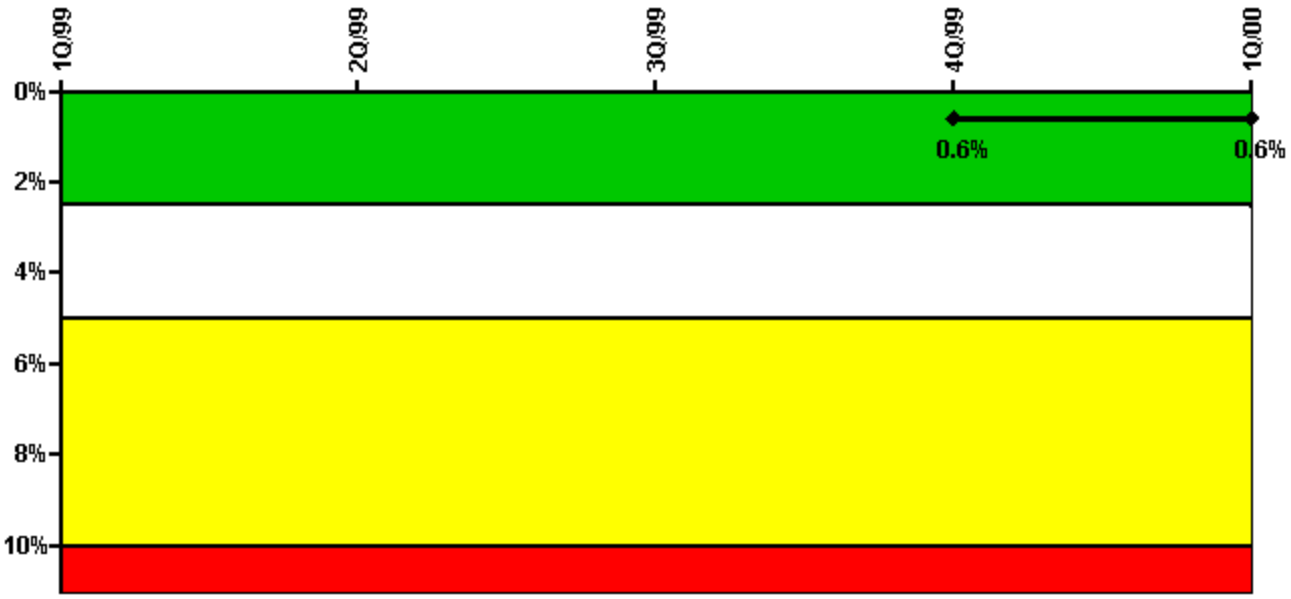
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	0	1.0	1.0
Critical hours	1199.8	2123.8	1565.0	2080.9	2149.4
Indicator value	**4.9**	**4.0**	**1.0**	**1.0**	**1.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

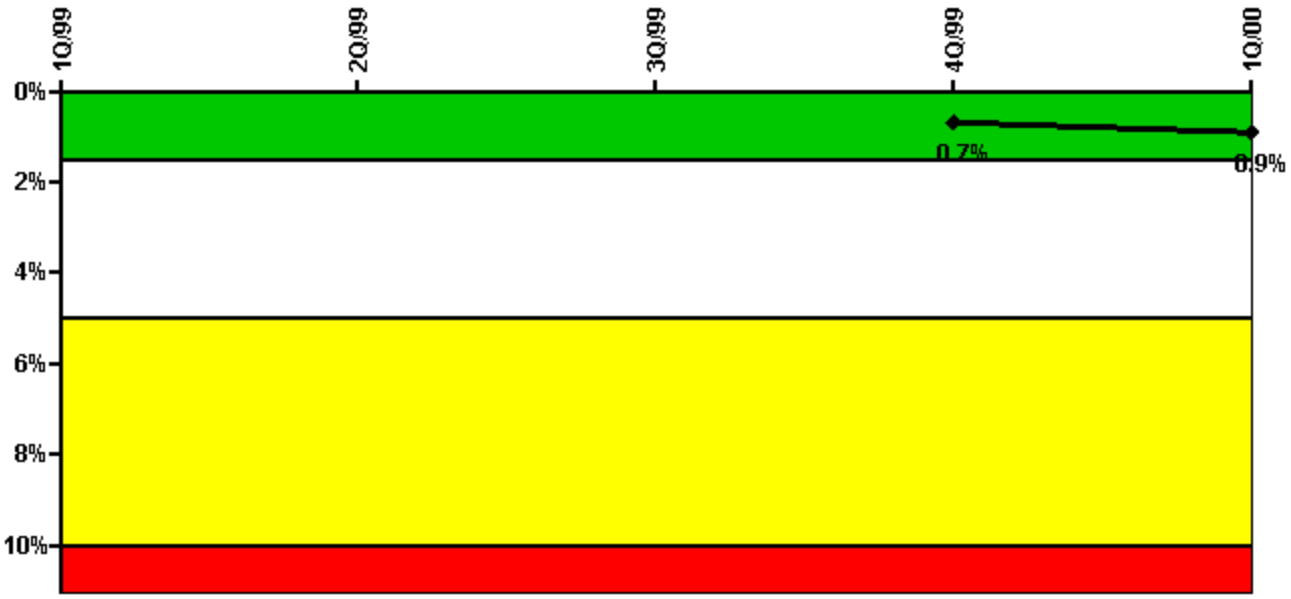
Safety System Unavailability, Emergency AC Power	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	17.90	18.92	16.30
Unplanned unavailable hours	0	0	0	0	59.64
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	0	19.30	21.00	37.12	19.42
Unplanned unavailable hours	3.12	0	16.58	7.65	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				**0.6%**	**0.6%**

Licensee Comments:

1Q/00: The Majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The Majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

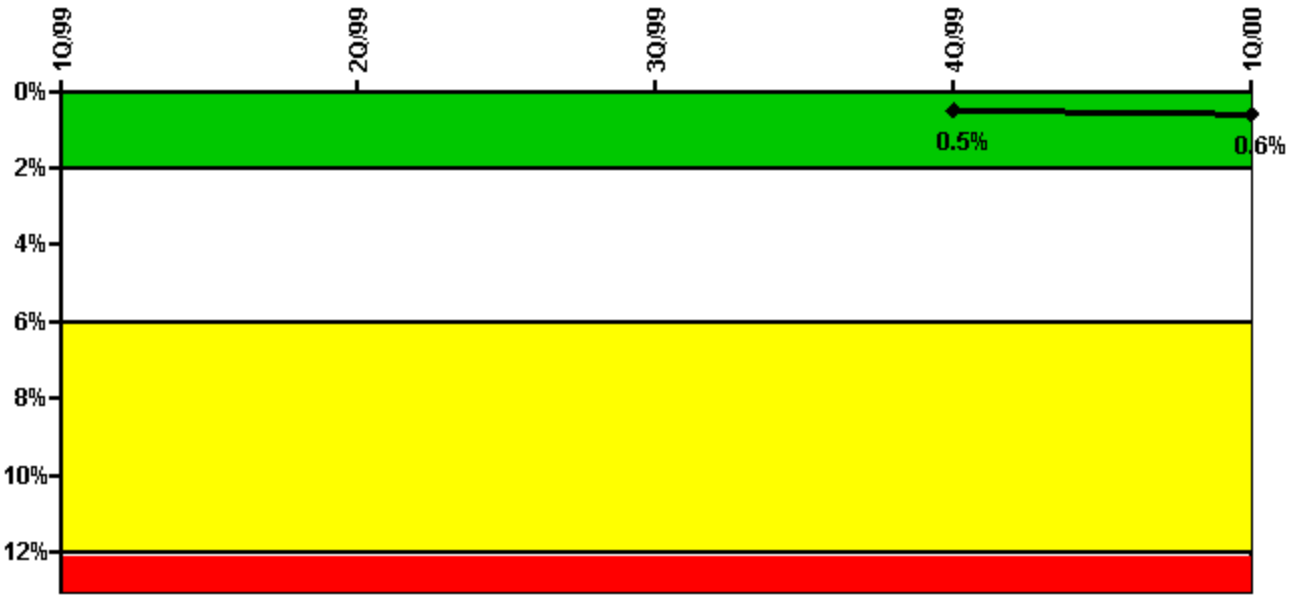
Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	2.00	0	0	81.92	21.42
Unplanned unavailable hours	0	0	0	0	59.64
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2149.40
Train 2					
Planned unavailable hours	0	13.92	21.00	46.38	19.69
Unplanned unavailable hours	0	0	17.91	7.65	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2149.40
Indicator value				**0.7%**	**0.9%**

Licensee Comments:

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability.

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	13.23	0	18.92	36.00
Unplanned unavailable hours	0	0	0	0	59.64
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2166.30
Train 2					
Planned unavailable hours	15.62	0	21.00	28.90	19.42
Unplanned unavailable hours	0	12.73	16.58	7.65	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2166.30
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	29.83	5.75	6.15	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2166.30
Indicator value				**0.5%**	**0.6%**

Licensee Comments:

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability.

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	26.63	54.82	16.30
Unplanned unavailable hours	0	9.90	0	0	59.64
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	0	16.88	21.00	43.15	33.98
Unplanned unavailable hours	0	0	16.58	7.65	0
Fault exposure hours	0	0	0	9.25	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 3					
Planned unavailable hours	0	0	26.63	54.82	16.30
Unplanned unavailable hours	0	9.90	0	0	59.64
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 4					
Planned unavailable hours	0	16.88	21.00	43.15	33.98
Unplanned unavailable hours	0	0	16.58	7.65	0
Fault exposure hours	0	0	0	9.25	0
Effective Reset hours	0	0	0	0	0

Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				**0.7%**	**0.8%**

Licensee Comments:

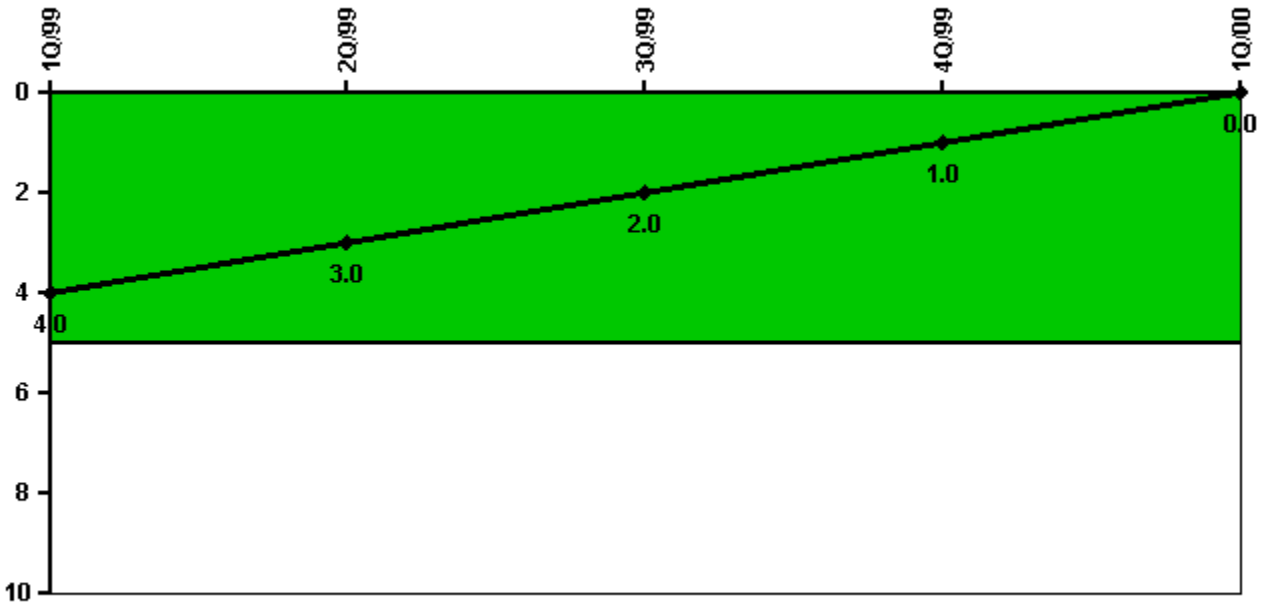
1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support system unavailability.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability.

4Q/99: The reported unavailability hours from the first quarter of 1997 to the third quarter of 1999 uses the safety system performance indicator data submitted to WANO. Equipment unavailability for that period was not re-examined to the criteria of NEI 99-02, Draft, Rev D. However, the historical data will be reviewed to determine if support system unavailability was accurately cascaded into the reported system in past WANO submittals. This review should be complete for the next subsequent submittal. Note that fault exposure hours occurring prior to the third quarter of 1999 would have been included in the unplanned unavailability hours. The data for the fourth quarter of 1999 was determined using the guidance of NEI 99-02, Draft, Rev D. Note: The Containment Spray system, as well as the Shutdown Cooling mode of LPSI, comprises the RHR function. Because the RHR system is needed at all times, the number of hours required for RHR system availability is the total hours in the quarter. Unavailability occurs when a train is unable to perform its intended safety function when it is required to be available to perform that function. If a component is not required in certain modes, it is because it is not needed to meet a safety function under those conditions. For example, unavailability is not counted for the Containment Spray system when it is manually isolated and aligned for shutdown cooling in modes 4, 5 and 6. Change to previously submitted data: Hours in the 4th quarter 1999 were reduced because a re-examination of the data determined that unavailable hours had been erroneously counted when the Shutdown Cooling function was not required in Modes 1-3. This did not result in a color change.

Safety System Functional Failures (PWR)



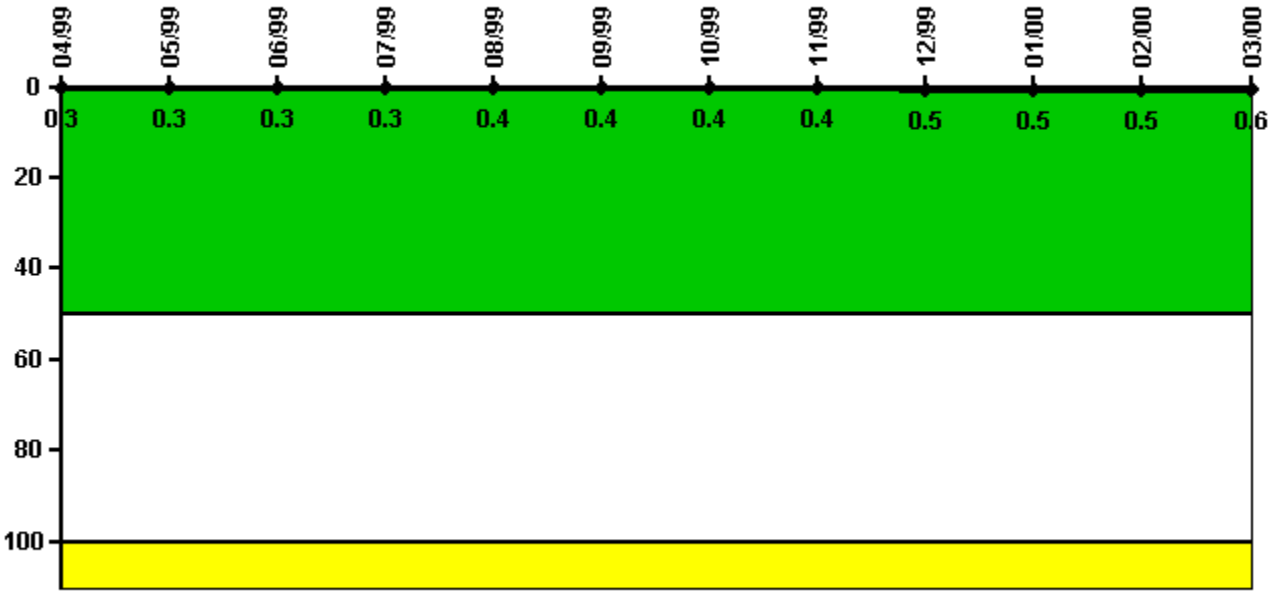
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Safety System Functional Failures	1	0	0	0	0
Indicator value	**4**	**3**	**2**	**1**	**0**

Licensee Comments: none

Reactor Coolant System Activity



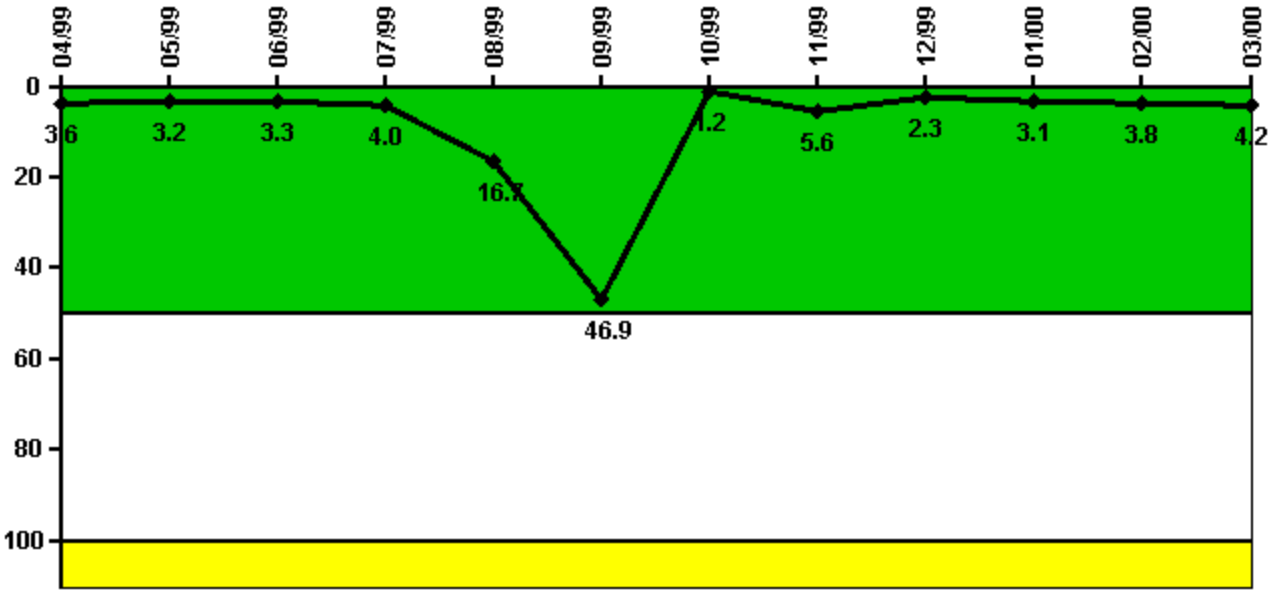
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	0.002780	0.002990	0.002670	0.003480	0.003530	0.003570	0.004230	0.004420	0.004610	0.005010	0.005360	0.005890
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.6**

Licensee Comments: none

Reactor Coolant System Leakage



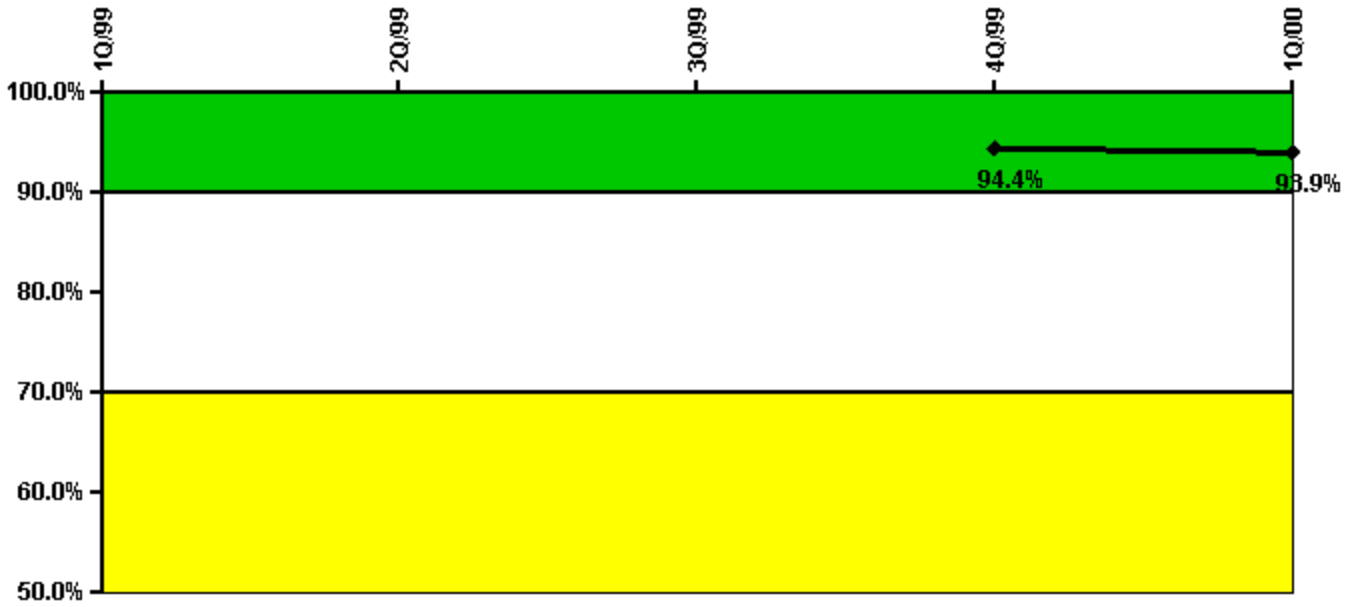
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	0.359	0.324	0.326	0.401	1.671	4.690	0.122	0.557	0.233	0.308	0.381	0.420
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**3.6**	**3.2**	**3.3**	**4.0**	**16.7**	**46.9**	**1.2**	**5.6**	**2.3**	**3.1**	**3.8**	**4.2**

Licensee Comments: none

Drill/Exercise Performance



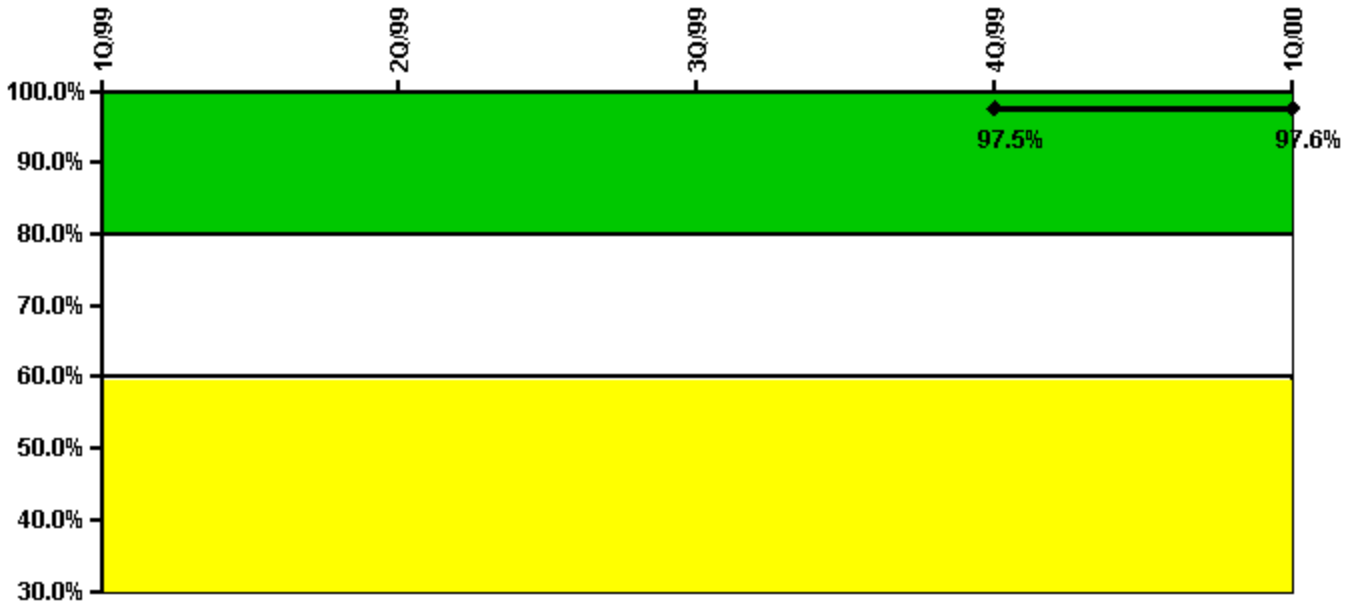
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	0	26.0	60.0	43.0	51.0
Total opportunities	0	26.0	68.0	44.0	54.0
Indicator value				**94.4%**	**93.9%**

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

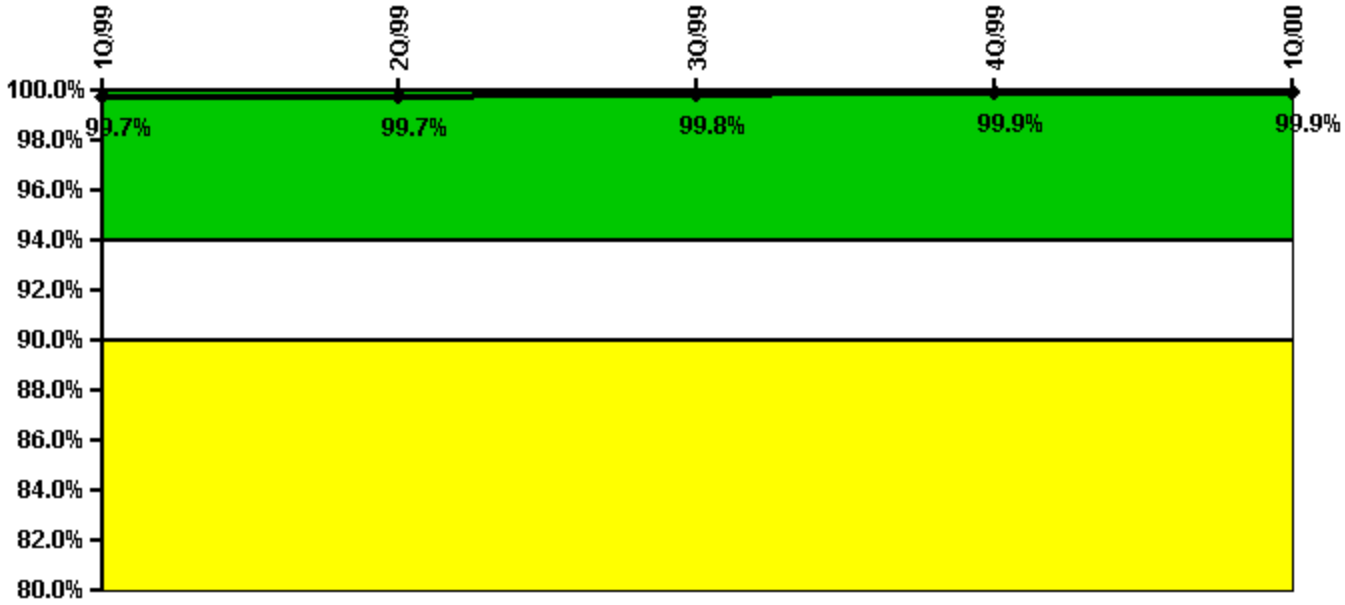
Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel				78.0	120.0
Total Key personnel				80.0	123.0
Indicator value				**97.5%**	**97.6%**

Licensee Comments:

1Q/00: In the 1st quarter of 2000, added Control Room Communicator as a key position. Also added one EOF position and one TSC position as key positions.

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

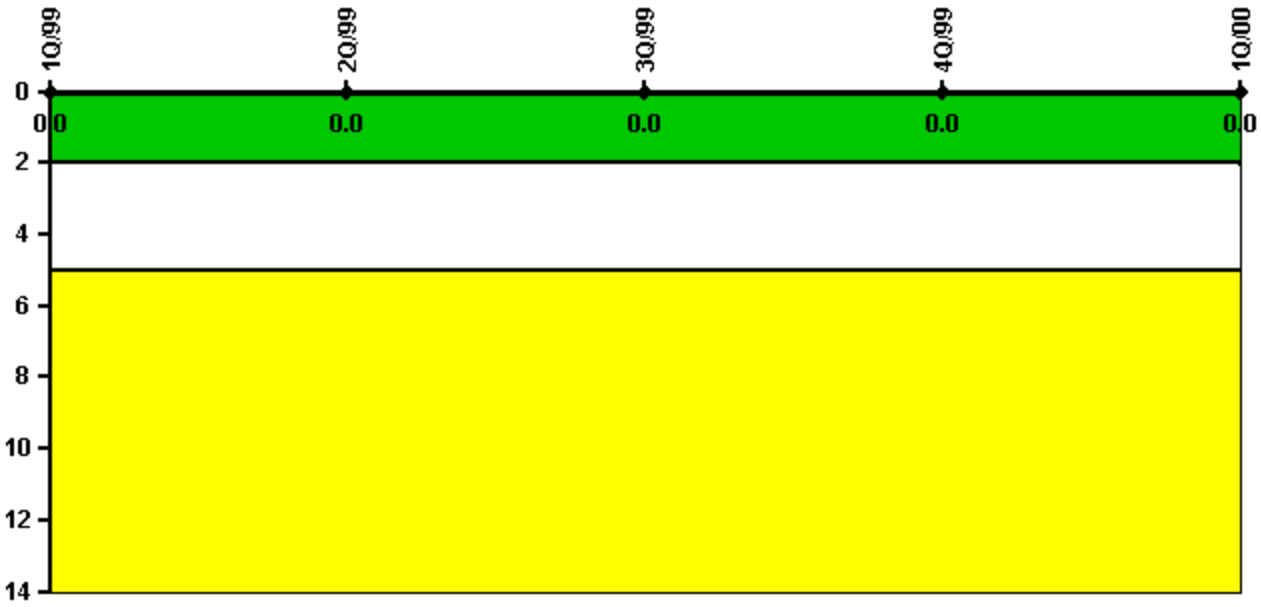
Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	402	402	401	402	405
Total sirens-tests	402	402	402	402	406
Indicator value	**99.7%**	**99.7%**	**99.8%**	**99.9%**	**99.9%**

Licensee Comments:

1Q/00: Four additional tests were conducted on January 1, 2000 as part of the Waterford 3 Y2K response effort.

Occupational Exposure Control Effectiveness



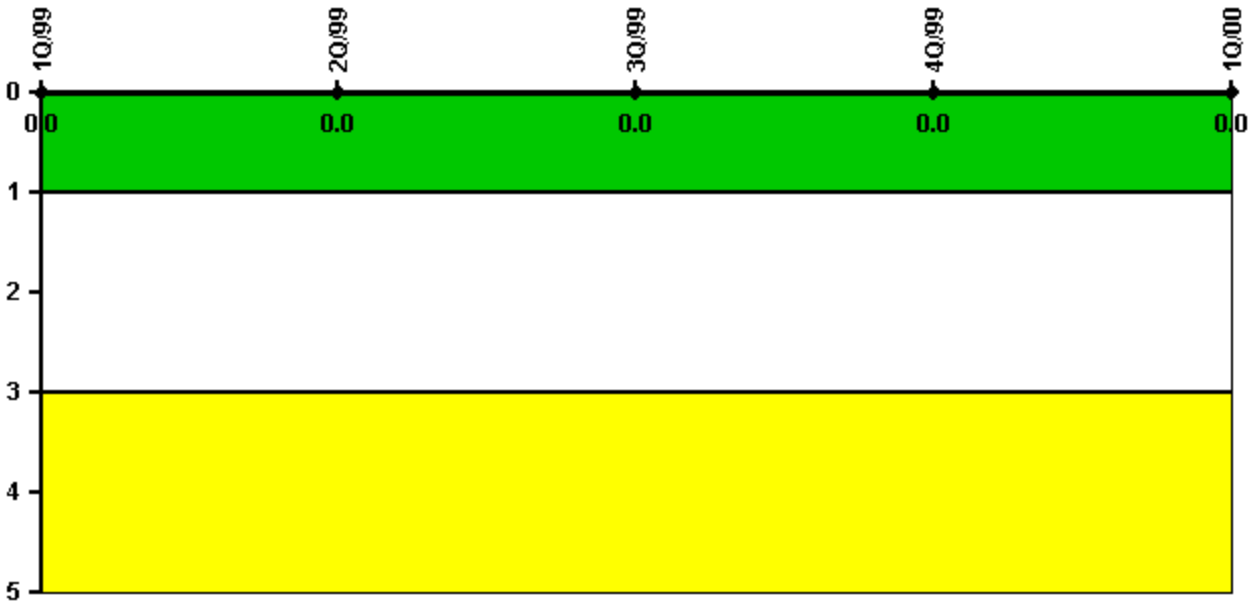
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent



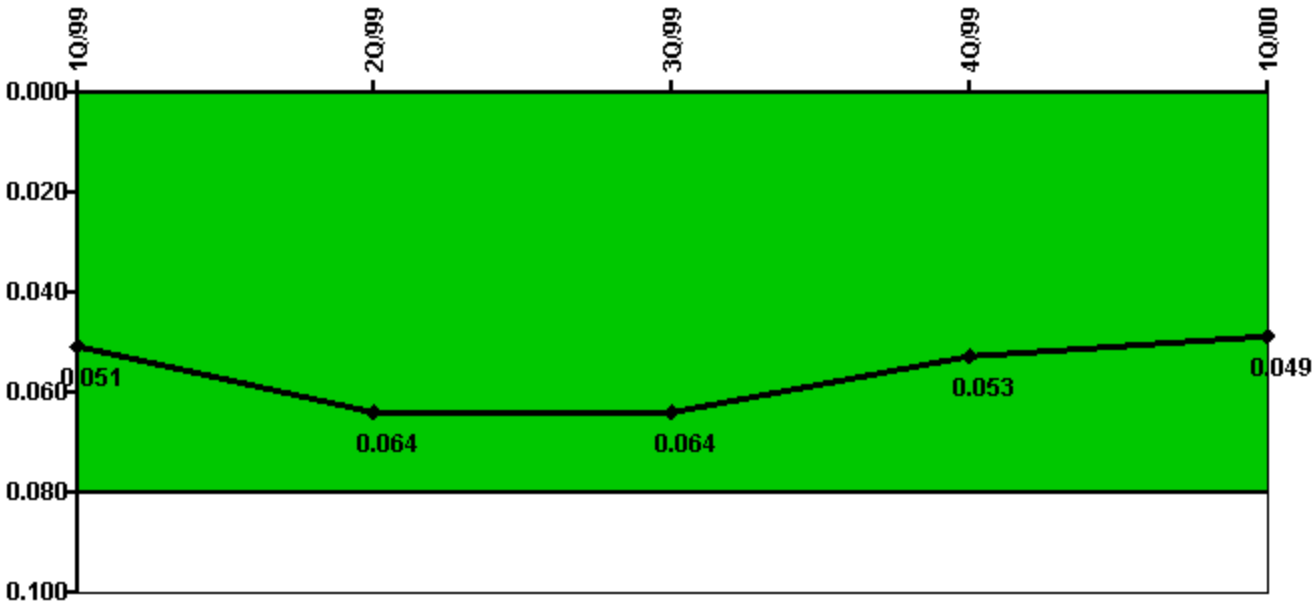
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	132.49	598.30	129.05	16.45	69.46
CCTV compensatory hours	28.0	14.0	43.1	62.0	18.4
IDS normalization factor	1.35	1.35	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1
Index Value	**0.051**	**0.064**	**0.064**	**0.053**	**0.049**

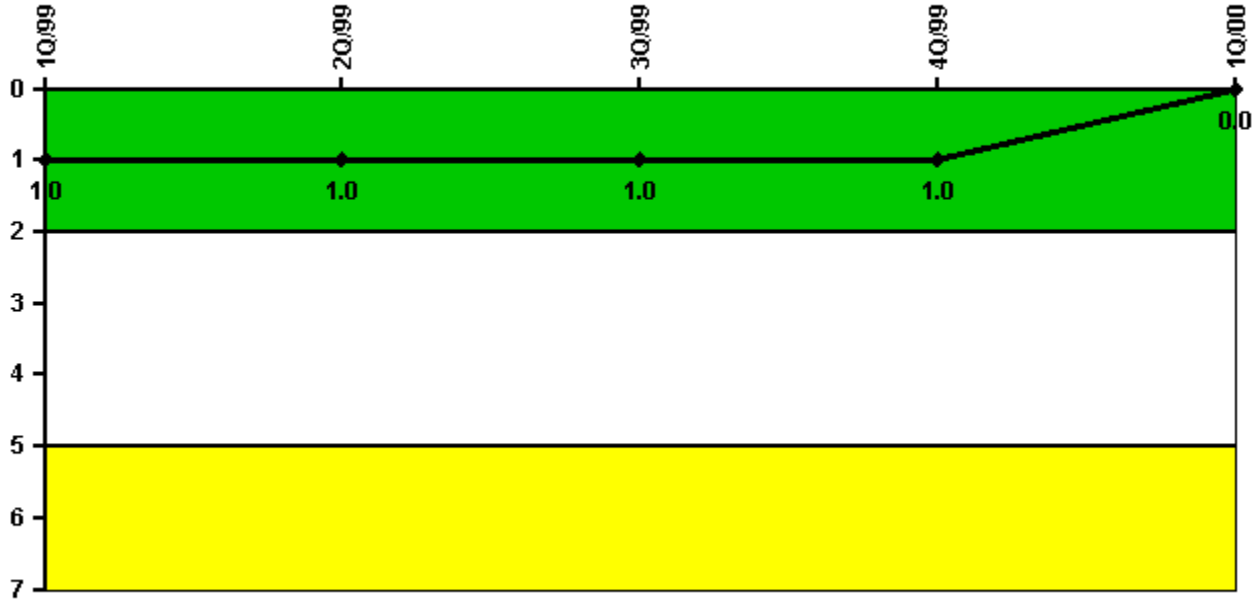
Licensee Comments:

1Q/00: Note that the IDS normalization factor reported in the 3rd and 4th Quarter 1999 data has been corrected. The factor reported was 1.35; it should have been reported as 1.1. The correction did not result in a color change for this indicator. Background: In September 1999, the IDS normalization factor was adjusted from 1.35 to 1.1 based on the determination that four turnstiles should not be included in calculating the factor. The turnstiles are barriers that have no detection function or capability. It was determined that a correction would be submitted with the 1st Quarter 2000 data.

4Q/99: Note that this data reflects a correction to the IDS normalization factor reported in the 3rd and 4th Quarter 1999 data. The factor reported was 1.35; it should have been reported as 1.1. This correction does not result in a color change for this indicator. Background: In September 1999, the IDS normalization factor was adjusted from 1.35 to 1.1 based on the determination that four turnstiles should not be included in calculating the factor. The turnstiles are barriers that have no detection function or capability. It was determined that a correction would be submitted with the 1st Quarter 2000 data.

3Q/99: Note that this data reflects a correction to the IDS normalization factor reported in the 3rd and 4th Quarter 1999 data. The factor reported was 1.35; it should have been reported as 1.1. This correction does not result in a color change for this indicator. Background: In September 1999, the IDS normalization factor was adjusted from 1.35 to 1.1 based on the determination that four turnstiles should not be included in calculating the factor. The turnstiles are barriers that have no detection function or capability. It was determined that a correction would be submitted with the 1st Quarter 2000 data.

Personnel Screening Program



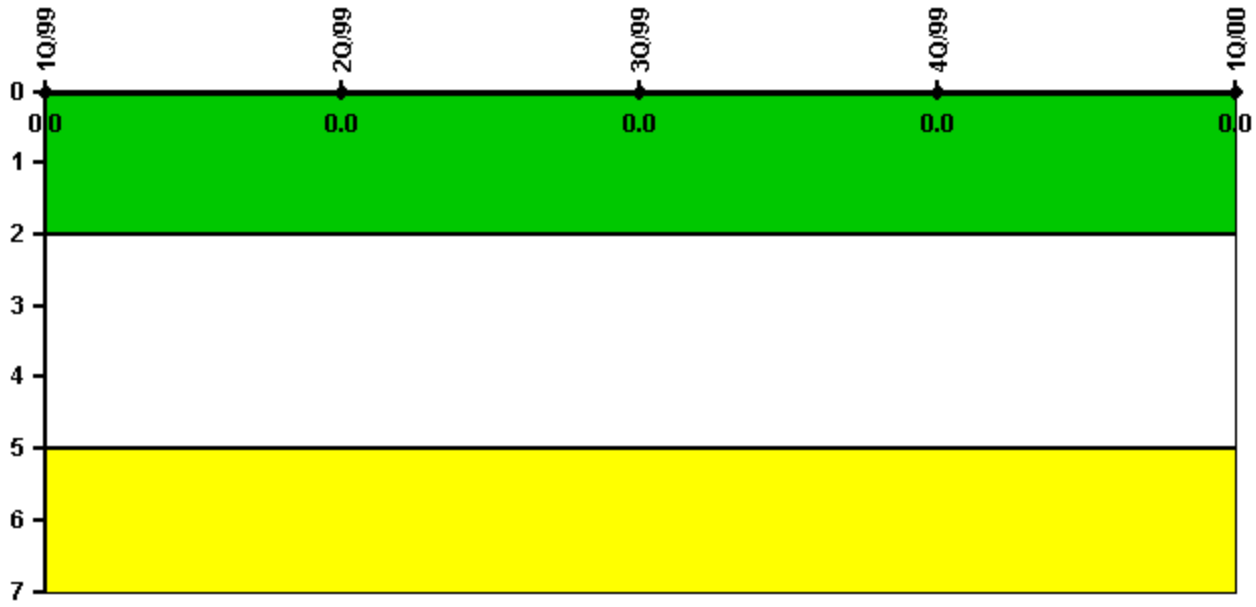
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program failures	1	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**0**

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program Failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 1, 2002